ORD PROCESS
ASA(ALT) DASC

May 1, 2003

ORD Process
Phase I (GO/SES Staffing)
(3-4 weeks)

- TSM submits TRADOC approved ORD to Army Staff (
- DASC receives warning order of ORDs expected to b HQDA staffing from ASA(ALT)
- DASC receives tasker as designated lead to review O provide comments for ASA(ALT) with suspense date (1 month)
- DASC receives AROC briefing templates

ORD Process
Phase I (GO/SES Staffing)
(3-4 weeks)

- DASC is designated as Lead Action Officer for ASA(ALT
  - DASC reviews ORD and writes comments (provide
    of comments to PM for review)
  - DASC seeks comments from PM/PEO and other AS
    organizations (ZT, ZL & NC) to develop consolida
    ASA(ALT) response
    - DASC must give suspense to ZT, ZL & NC in
      order to receive comments and meet ASA(AL
      suspense

ORD Process
Phase I (GO/SES Staffing)
(3-4 weeks)

- DASC provides and assist PM with ORD AROC briefin
    - Affordability chart
    - BES/PRESBUD Funding chart
    - Cost Risk Assessment chart
    - Programming Charts
    - Schedule Risk Assessment chart
    - Technical Risk Assessment chart
    - Testability Risk Assessment chart
- DASC staffs charts to review agencies (CEAC, PEO, A
  & ATEC) with suspense date
- DASC coordinates three-way meeting (phone, VTC, or
  person) between ZS, ZL and PM/PEO to resolve com
  comments

ORD Process
Phase I (GO/SES Staffing)
(3-4 weeks)

- G3 RQ requires GO-level approval of ORD comments
- DASC briefs and obtains signature/initials from GO-le
  - Prepares SAAL Form 5
  - Obtains Assistant Deputy/Deputy for Systems Ma signature/initials on SAAL Form 5
  - Initials on SAAL Form 5 constitute record of appr
- DASC provides AROC charts and comments to SAAL-S
- SAAL-SI transmits official comments to G3 RQ

ORD Process
Phase II (RSO IPT)
(1 week)

- G3 RQ schedules and convenes ORD review panel
  - DASC attends; oversees results of ASA(ALT) comm
    and ensures that other-agency comments do not c
    with ASA(ALT) requirements
  - Review panel agrees to accept/partial/reject comm
- HQDA G3 returns comments back to TSM for appropri
  incorporation into TRADOC approved ORD
- TSM submits corrected TRADOC approved ORD back t
- G3 RQ restaffs corrected TRADOC approved ORD for c

ORD Process
Phase III (3-Star Signature)

- HQDA G3 (RQ) tasks ASA(ALT) SI to obtain 3-Star si
- DASC submits approval recommendation for signatu
- ASA(ALT) submits approval signature back to G3 RQ
- If **paper** AROC, this completes the process

ORD Process
Phase IV AROC Prep
(2 weeks)

- If formal AROC, DASC assists with final AROC cha
  slide formats
  - XXX Operational Requirements Documents (OR
  - Purpose
  - Agenda
  - TCP Linkage
  - System of Systems Requirements Linkage
  - Value Added to Warfight
  - Background
  - Threat Summary

ORD Process
Phase IV AROC Prep
(2 weeks)

- Concept
- Concept Sketch
- Analysis of Alternatives/Studies
- Analysis of Alternatives/Studies
- Key Performance Parameters
- “First” KPP
- KPP Summary
- ORD Linkage to Overarching CRD
- ORD/CRD KPP Linkage
- Affordability (chart prepared previously)
- BES/PRESBUD Funding (chart prepared previo
- Cost Risk Assessment (chart prepared previous
- Programming Charts (chart prepared previousl
- Schedule Risk Assessment (chart prepared prev

ORD Process
Phase IV AROC Prep
(2 weeks)

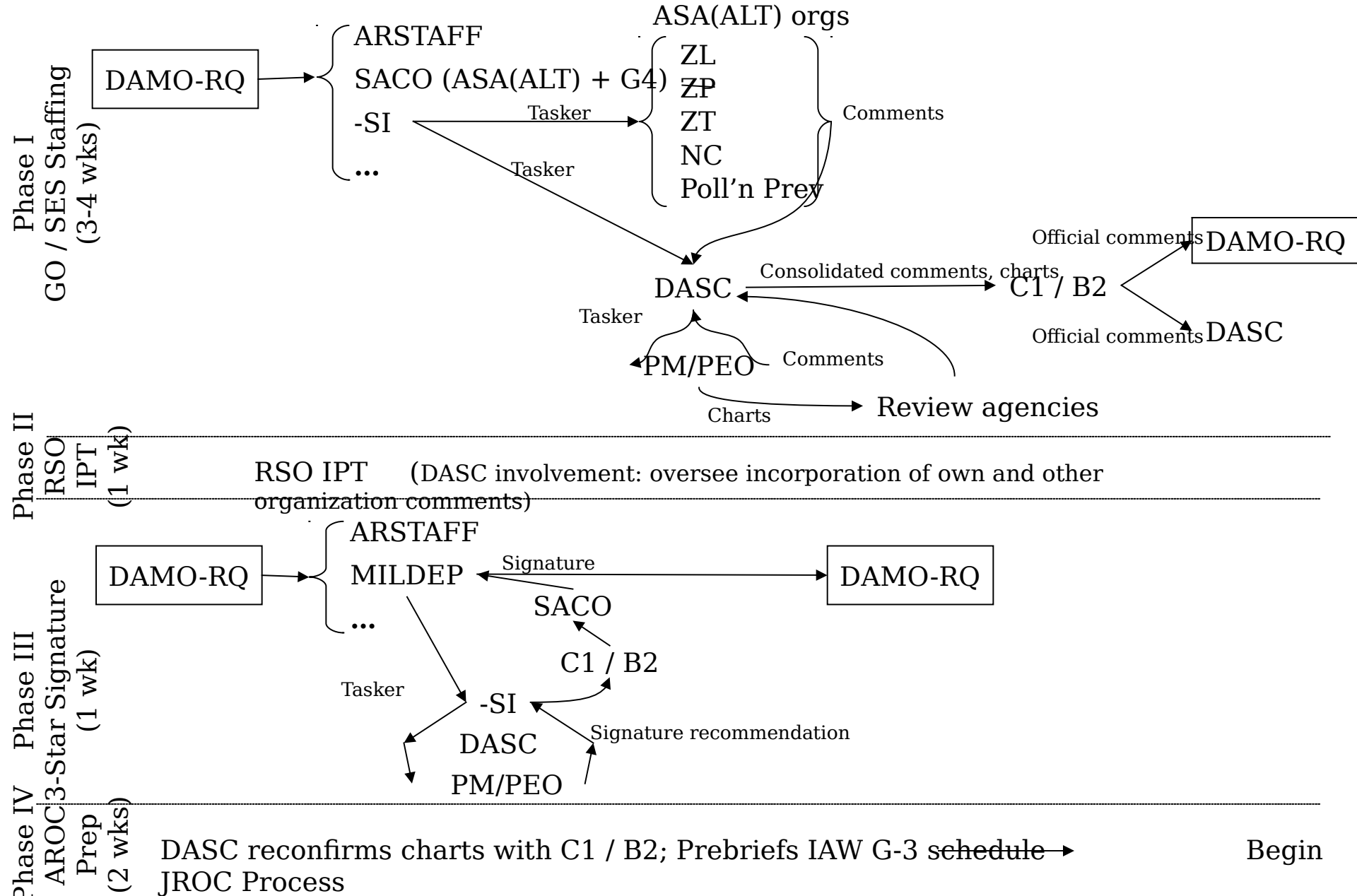
- Technical Risk Assessment (chart prepared pre
- Testability Risk Assessment (chart prepared pr
- ORD Supportability Performance Parameters
- ORD Supportability Assessment
- HQDA Staffing Issues
- Other Issues
- Recommendations

- DASC reconfirms charts with Assistant Deputy/Dep
  Systems Management
- Prebriefs conducted IAW G3 schedule

ORD Process
Phase V JROC Process
(16-18 weeks)

- ORD moved to Joint Staff data base upon AROC approval
  - 1 Week Joint Staff prep
  - 6 Weeks O-6 Level Staffing
  - 1 Week Joint Staff Rollup (Comment Consolidation)
  - X Weeks Army Response (Accept/Reject Comments)
  - 1 Week Joint Staff Prep
  - 4 Weeks Flag Level Staffing
  - 1 Week Joint Staff Rollup (Comment Consolidation)
  - X Weeks Army Response (Accept/Reject Comments)
- Joint Requirements Panel: J Day – 2 weeks

Typical Staffing Flow



Conclusion

- Timeline depends on G3 schedule
- Timeline depends on no staff extensions granted for rev
- Timelines depends on correct TRADOC ORD comments
  incorporated and returned to G3 in reasonable amount

ORG	Page #	Para #	Line #	Class	Comments	A/R/P
SAIS-IMC	3	2a(1)	15	U	**Critical:** Rationale:	

Above is the comment format required for all requirement document staffings.
DO NOT CHANGE THIS FORMAT by adding or reducing columns, putting in tabs or making any other changes.
INSTRUCTIONS:

- Outside margins for this table are at 0.5 in landscape orientation.
- **All data inserted will be in Bookman Old Style/12 Pitch Font.**
- One comment per line in the table.
- "Class" is the classification of the comment you are providing on that line.
- ALL comments will be identified as Critical, Substantive or Administrative at the beginning of the comment. This identification should be bolded. Comments not marked will be considered Administrative. Definitions: Critical - - indicates non-concurrence with the document until the comment is satisfactorily resolved; convincing support for critical comments must be provided in the comment matrix; Substantive - - indicates that a section in the document appears to be or is potentially unnecessary, incorrect, misleading, confusing or inconsistent with other sections; requires convincing support in the comment matrix; Administrative - - corrects what appears to be a typographical, format or grammatical error.
- DO NOT USE the last column (A/R/P) unless you are the consolidator for ODCSOPS.
- If you need to add a row to the format; go to Table, chose Insert Row, and indicate how many rows should be added.
- The classification of the page will be marked as shown, Bookman Old Style/14 Pitch/**Bold**/Centered, in the header/footer area.
- All comments must have a complete recommendation for change with a complete rationale provided. Vision statements and philosophy discussions will not be accepted. Any comment without a specific recommendation and rationale will not be considered.

If this format is changed, comments will be returned to the sender to correct before being accepted.

AROC Charts

XXX
Operational Requirements Document (ORD)

00 MONTH YEAR

BRIEFER NAME

BRIEFER'S POSITION / ORGANIZATION

Purpose

- List Bullets to support purpose; e.g.,

- Validate XXX ORD
- Validate ORD KPPs
- Review Cost, Schedule, Supportability, and Risk for program

Use the Notes view to script the slides and see all examples and instructions.

Agenda

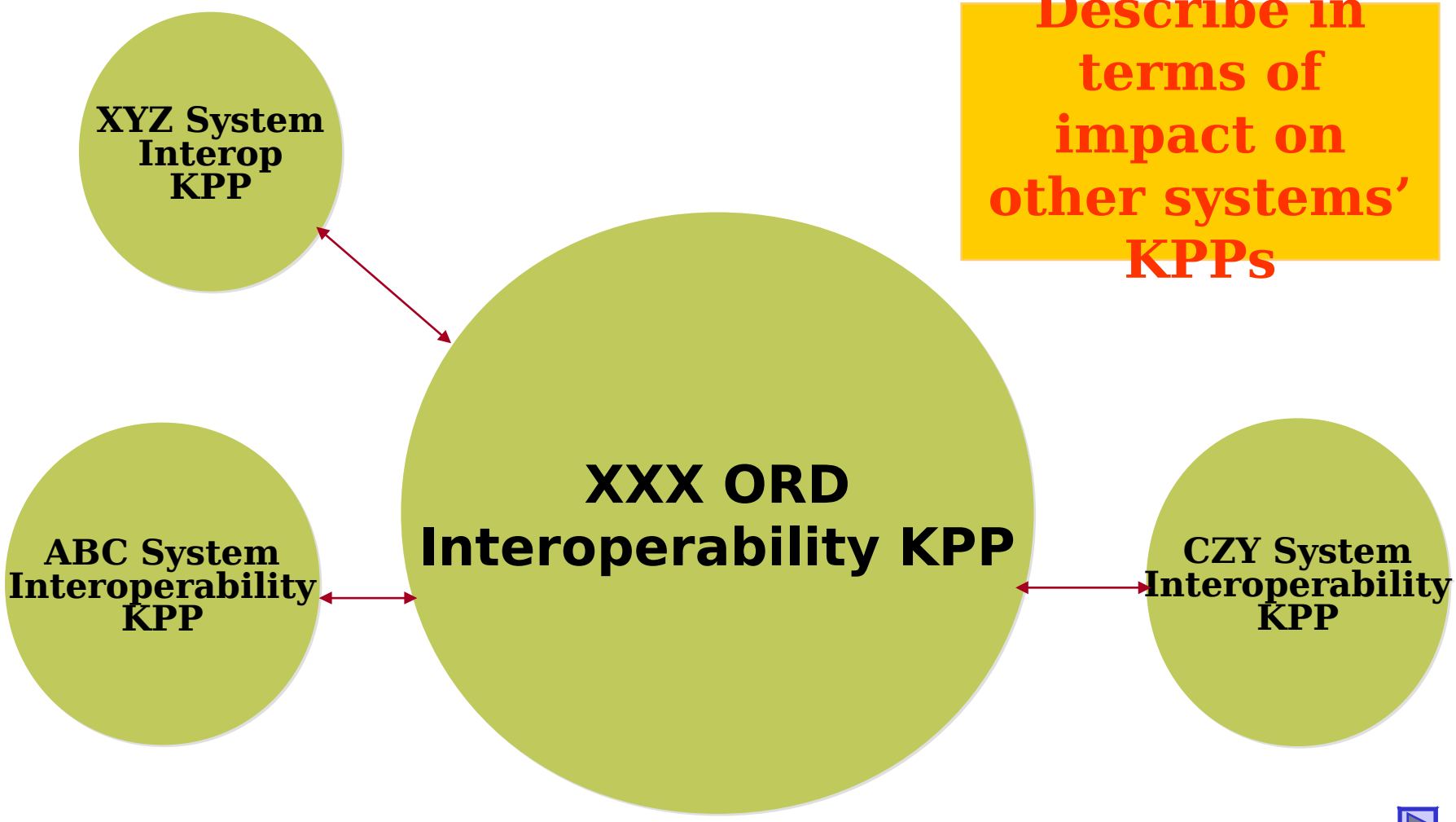
- TCP Linkage / System of Systems Requirements Linkage
- Value Added
- Background
- Threat Summary
- Concept
- Analysis of Alternatives / Studies
- Key Performance Parameters
- ORD Linkage to CRD
- Affordability
- Programmatics
- Risk Assessment
- Supportability Assessment
- Issues & Challenges
- Recommendations

TCP Linkage

Transformation Campaign Plan
Trained & Ready
1. Strategic Requirements & Planning
2. Modernization & Recapitalization
3. Manning & Investing in Quality People
4. Maintain Unit Readiness & Training
5. Training & Leader Development
Transform Operational Army
6. Joint / Army Strategy & Concepts
7. Army Doctrine
8. Operational Force Design
9. Deploying & Sustaining the Force
10. Develop & Acquire Advanced Technology
Transform Institutional Army
11. Management of Force Programs
12. Installations
13. Strategic Communications
14. Resourcing
15. C4ISR

- Sponsored in LO: 7 (Army Doctrine)
- Assisted by LOs: 1, 3, 6 & 10
- Supported O&Os:
  - Unit of Action O&O
  - Soldier as a System O&O

System of Systems Requirements Linkage


XYZ System Interop KPP
Describe in terms of impact on other systems' KPPs
ABC System Interoperability KPP
XXX ORD Interoperability KPP
CZY System Interoperability KPP

Value Added to Warfight

- Benefit of Capability / Need / Requirement?
  - Improved soldier protection
  - Reduces logistics footprint

Background

- List Bullets to support background
- Where does this requirement / capability come from?
- Why do we have this requirement / capability or something like it, or need something like it?
- Related MNSs/documents
- Previous AROC/JROC decisions
- Other key decisions or events

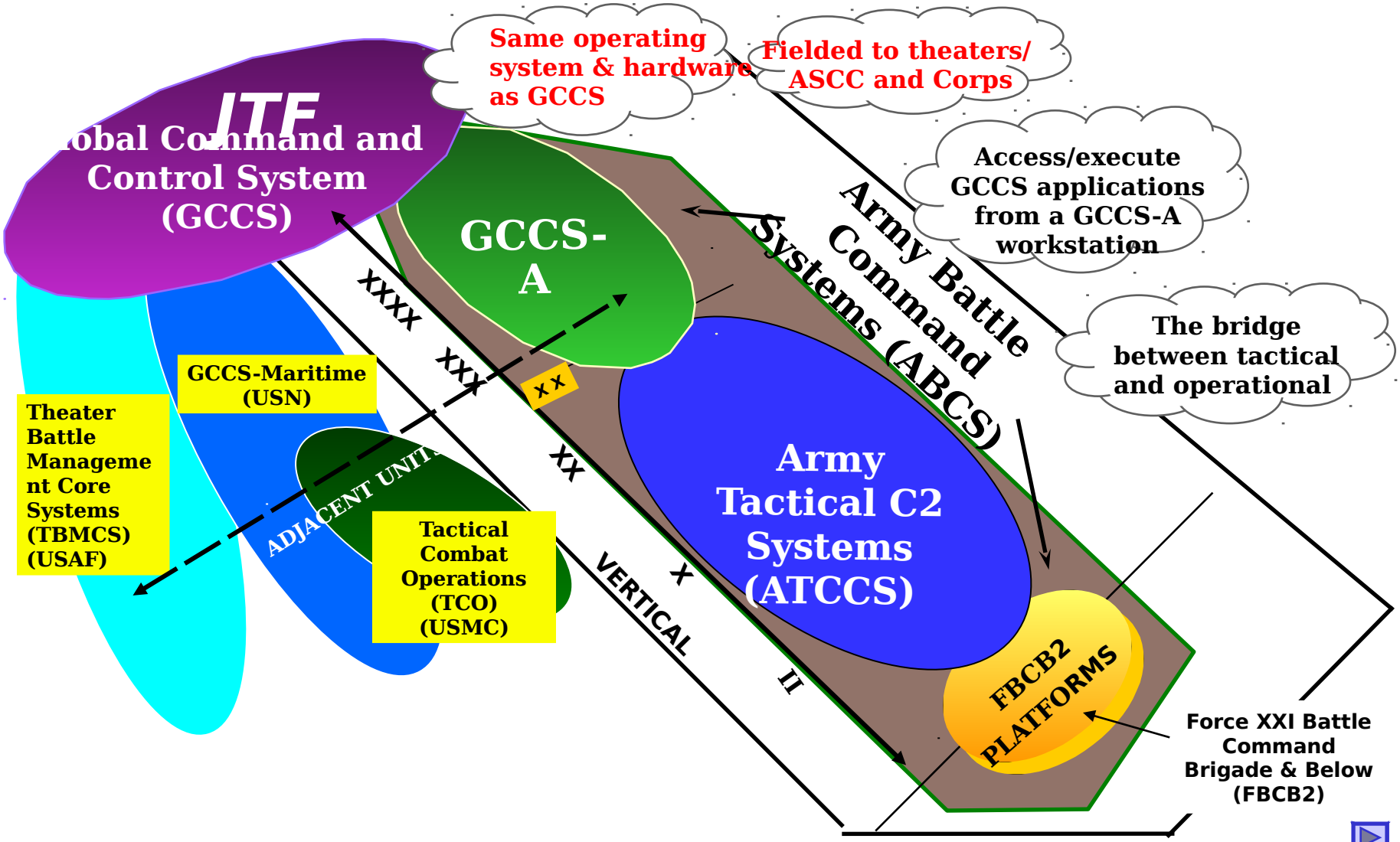
Threat Summary

- What on the battlefield forces us to have this capability?
- “System” threats include:
  - Physical destruction (Firearms, explosives, munitions, and NBC)
  - Spoofing
  - Electronic attack
  - Signals intelligence
  - Technical attack
  - Directed energy
  - Malicious code
  - Unauthorized access
- “System” STAR DIA validated (list date and STAR)

Concept

- Summarize operational concept (use picture if possible)
- Identify the system(s) that will be replaced by the new capability

Concept Sketch



Analysis of Alternatives / Studies

Alternatives: List them
Analysis: Focus on decision criteria
Other Issues (if applicable):
Summary:

Be sure to discuss cost.

Alternative 1
- Slowest
- Least costly

Alternative 2
- Not night capable
- Best (close range)

Alternative 3
- Most costly
- Highest risk

Analysis of Alternatives / Studies

Required Capabilities	SYS X	SYS Y	SYS Z
Day	X	X	X
Night	X	P	P
Range	P	X	X
Kill	P	P	P

Key Performance Parameters

First KPP

Second KPP

Note

- **The KPPs help define the main features of the ORD capabilities**
- **KPPs need to be measurable and testable**
- **Use threshold / objective format and blocks (if applicable)**
- **Prove rationale in bullet format**

“First” KPP

Threshold: **(AV and generators): Motor Gasoline (MOGAS)**

Objective: **Heavy fuel only**

Rationale:

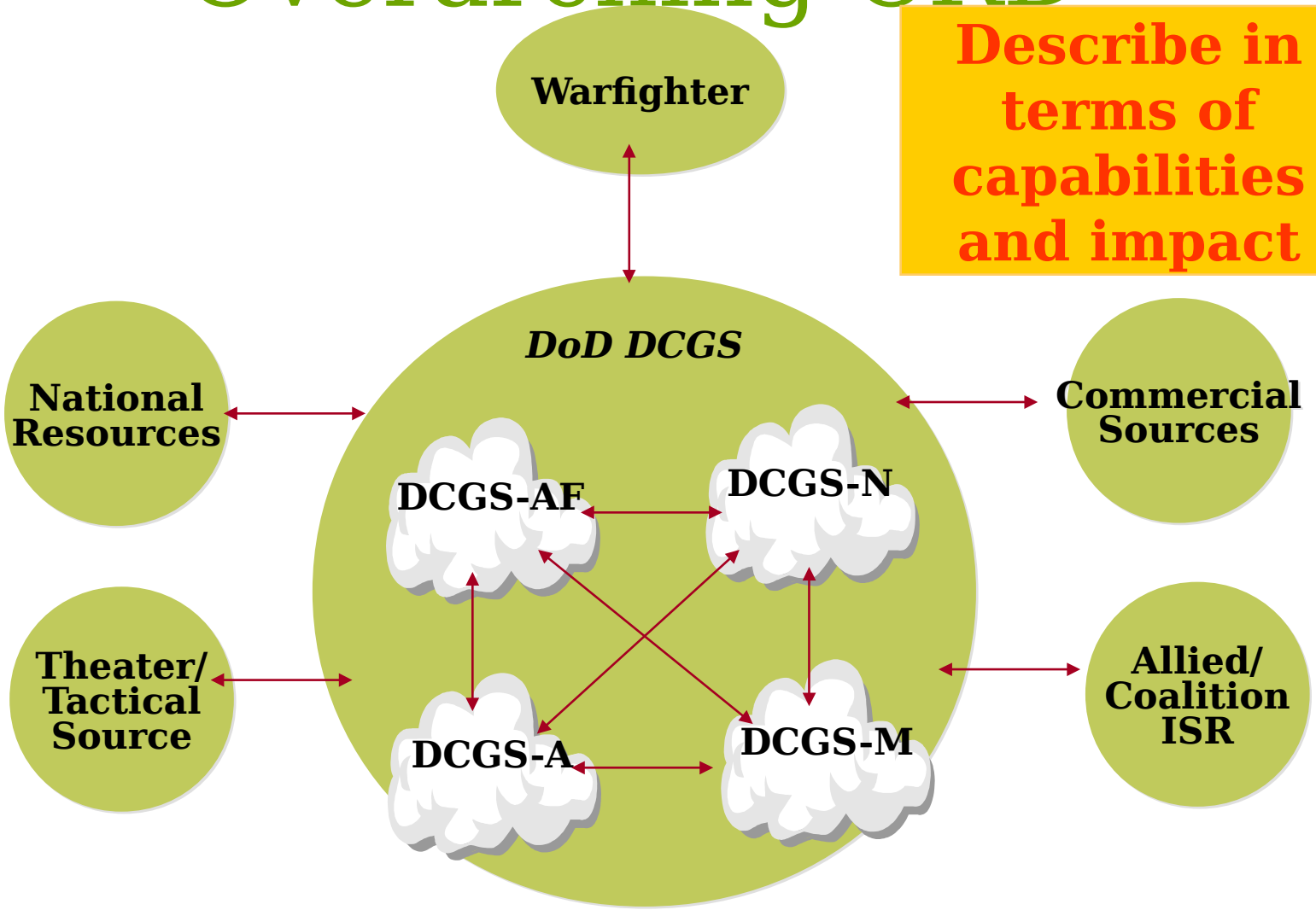
- **AVGAS currently not available at maneuver Bde level**
- **AVGAS generally not available on local economy in potential Theaters**
- **Heavy Fuel is the Army tactical fuel**
- **Heavy Fuel engine not currently technically feasible**
- **MOGAS not available after 2005 in Army inventory**
- **MOGAS generally available on the local economy in potential Theaters**

KPP Summary

	THRESHOLD	OBJECTIVE
EMPTY WEIGHTS	9300	8500
GROSS WEIGHTS	18,100	17,300
VERTICAL RATE OF CLIMB	1000	1500
SPEED	165 KTS	185 KTS

ORD Linkage to Overarching CRD

Describe in terms of capabilities and impact



ORD/CRD KPP Linkage

KPP	ORD	CRD
Speed	X	X
Weight	X	
Range	X	X

Affordability

Cost for developing, procuring and fielding capa

	Threshold	Objective
RDTE Costs (FY 03-07)	107	100
O&M Costs (FY 03-07)	85	60
Procurement Costs (FY 03-07)	200	220
Quantity Procured	52	52
Other Costs (FY 03-07) (e.g., MCA)	11	6
Total Cost	403	386

In $M
FY03 $

$7.75M per “item”

BES / PRESBUD Funding

	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	Total
Required (RDTE)								
Required (O&M)								
Required (PROC)	133	133	123	8	6			403
Funded (RDTE)								
Funded (O&M)								
Funded (PROC)	133	130	100	0	0			363
UFR (RDTE)								

In $M
FY03 $

Cost Risk Assessment

Assessed by: PM / Materiel Developer / MACOM
Reviewed by: CEAC

	Prior	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	TC	TOTAL
Required (RDTE)										
Required (O&M)										
Required (PROC)										
Funded (RDTE)										
Funded (O&M)										
Funded (PROC)										
UFR (RDTE)										
UFR (O&M)										
UFR (PROC)										
QTY Required										
QTY Funded										
QTY Unfunded										

TOTAL PROGRAM INFO CHART:	$M (BY)
SDD:	
Procurement:	
APUC	
PAUC	
% Program Funded	(%)

PM Definitions

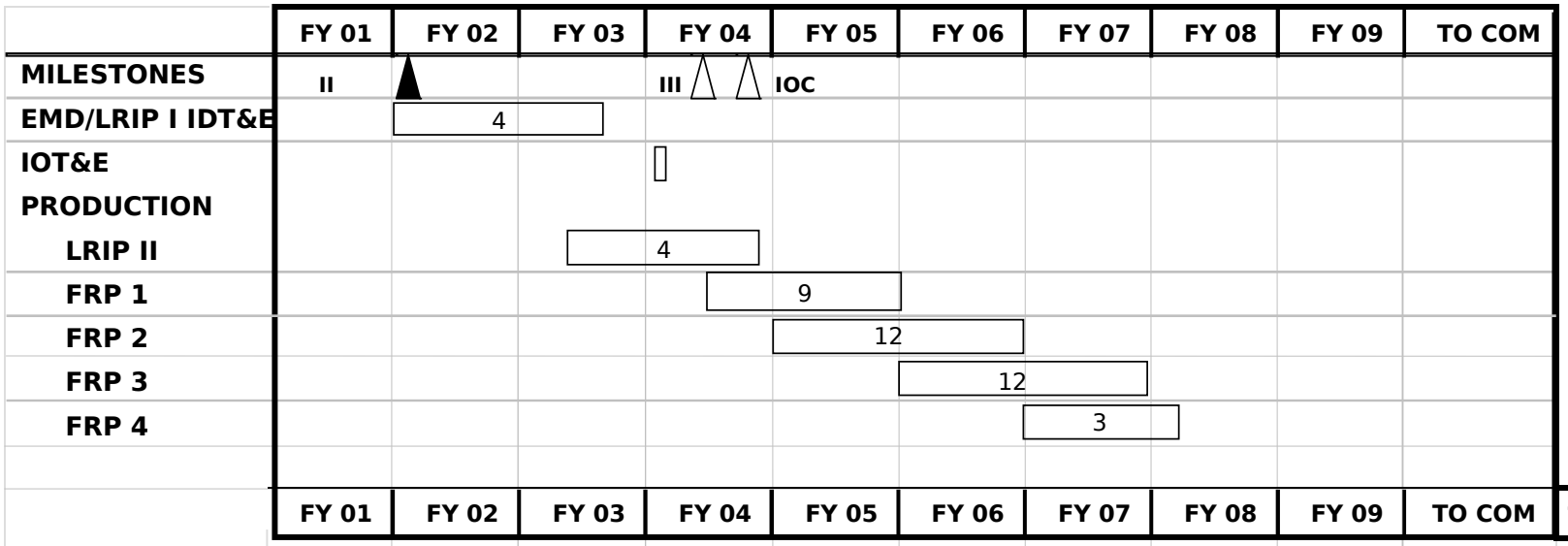
Green –

Yellow –

Red --

Cost Risk	G/Y/R	APPN	Risk Impact	($M)	% Funded	Mitigation

Programming Charts



	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	TO COM	TOTAL
RDT&E	50.2	45.1	31.8	35.9	31.8	33.5	32.1	4	6	-	270.4
PROD	0	0	37.4	84.3	100.7	98.9	91.0	4	0	56.7	473.0
TOTAL ($M)	50.2	45.1	69.2	120.2	132.5	132.4	123.0	8	6	-	743.4

TOTAL PROGRAM: $743.4 RDT&E: $270.4 PROCUREMENT: $473.0 QNTY: 44
AVE PROCUREMENT UNIT COST: $7.4 (T/Y)

NOTE : ▲ = COMPLETE; △ = SCHEDULED

Schedule Risk Assessment

Assessed by: PM / Materiel Developer
Reviewed by: PEO
Concur / Non-concur (see comments)

<u>Risk Definition</u>: Probability of meeting the SDD/Procurement schedules to support unit set fielding with ORD capability and cost constraints

ORD Required FUE / IOC: (Qtr/FY)			
FUE / IOC Definition: (Size / Element / Quantity)			
Prog Start (SDD): (Qtr/FY)		SDD Duration: (Mo)	
Prog Start (PDOS): (Qtr/FY)		Award to First Del: (Mo)	
Risk Issue	SDD Schedule Risk Rating	Impact to SDD	(+/- Mo.)
Risk Issue	PDOS Schedule Risk Rating	Impact to PDOS	(+/- Mo.)

<u>Risk Rating Definitions</u>
Red: Analysis indicates a SDD/Proc schedule variance which will not meet unit set fielding date
Yellow: Analysis indicates a SDD/Proc schedule variance which meets unit set fielding date with reduced quantities/capabilities

Technical Risk Assessment

Assessed by: PM / Materiel Developer
Reviewed by: AMSAA
Concur / Non-Concur (see comments)

Risk Definition: Probability that a technical solut
meet requirement within program cost/schedule c

Requirements ORD KPPs	Risk Rating	Specific Risk/ Driver(s)	Additional Risk Mitigation Measures	Risk Rating After Mitigation	Achievable Performance at Low Risk
Fwd Speed (200 MPH)	R	Integration; hyper drive	Technology maturation contract $XX M UFR months	Y	60 MPH would be low risk
Other Rqmts					

Other Rqmts is for significant non-KPP areas.

Risk Rating Definitions:
Red: Test or analysis indicates achievement of rqmt in most conditions is unlikely for known technical s
Yellow: Test or analysis indicates achievement of rqmt is likely in some, but not all, conditions; or predic
Green: Test or analysis indicates rqmt will likely be met in most conditions with the current approa

Testability Risk Assessment

Assessed by: PM/TSM / Combat Developer
Reviewed by: ATEC / AMSAA
Concur / Non-concur (see comments)

Risk Definition: Degree to which satisfaction of the requirement can be demonstrated by testing, and the degree to which a capability exists to test.

Requirements	DT Risk Rating	Impact / Limitations	OT Risk Rating	Impact / Limitations	Additional Risk Mitigation Measures	Risk Rating After Mitigation	
ORD KPPs						DT	OT
Fwd Speed (200 MPH)							
Receives XX% of msgs in specified threat environment							

Other Rqmts is for significant non-KPP areas.

Risk Rating Definitions:

Red: DT: Required performance cannot be directly or indirectly demonstrated
OT: Requirement cannot be qualitatively or quantitatively assessed by test

Yellow: DT: Required performance inferred from measurable parameters
OT: Requirement can be qualitatively assessed by test or inferred from measurable parameters.

ORD Supportability Performance Parameters

Parameter	Threshold	Objective

ORD Supportability Assessment

- **Enhance Deployment Timeliness**
  -
  -
- **Reduce CS/CSS Footprint**
  -
  -
- **Reduce the Cost of Logistics**
  -
  -

HQDA Staffing Issues

- Identify unresolved CINC/Service/JS issues from formal review
- Identify any issues from the C4/Intel/Weapons Certifications
- Funding, schedule, meeting thresholds or Congressional interest

Other Issues

- **Identify additional issues and challenges not related to HQDA**

  staffing

Recommendations

- List the recommendations below (as appropriate)
- Should follow the purpose

Slide Formats

- Script: Must have a script using the words the briefer will actually use in the AROC; script font is Arial 16, bold
- No more than 5 bullets per page
- Consistency and readability is the standard
- Titles: Use bold black Bookman Old Style; pitch 32
- Body: Use bold black Times New Roman; pitch 24
- Use pictures to tell story where appropriate -- unnecessary graphics are not advised
- Stay clear of “wordy” or “all word” slides when possible
- All slides must include date and page numbers